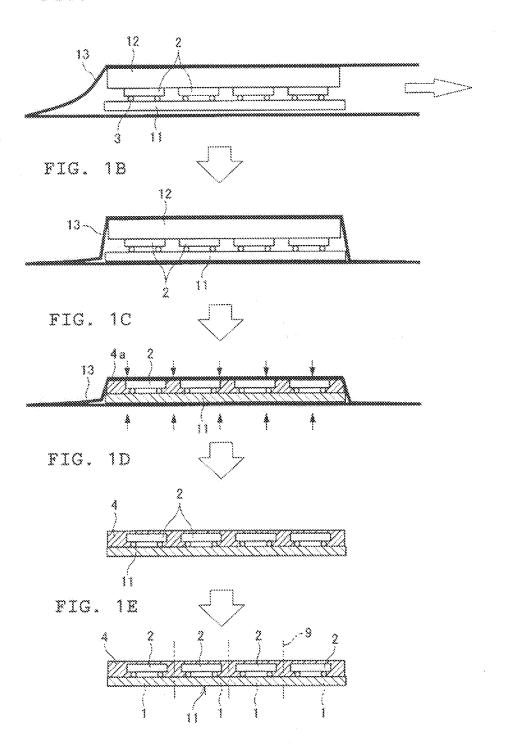
FIG. 1A



the state of the s

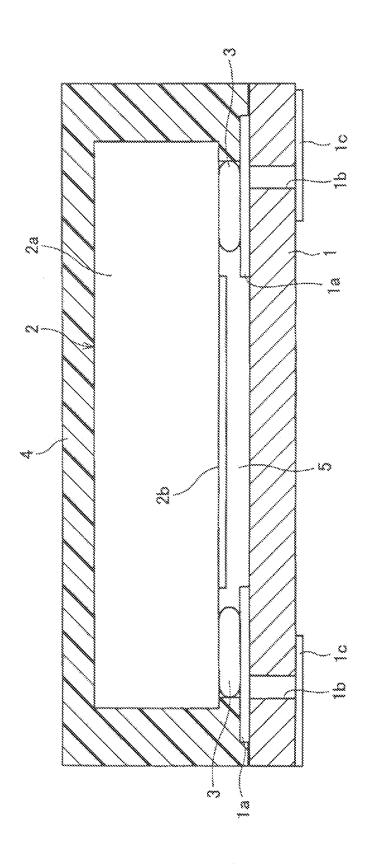


FIG. 2

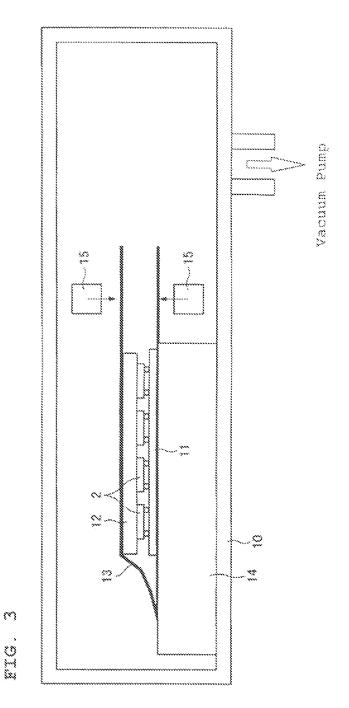
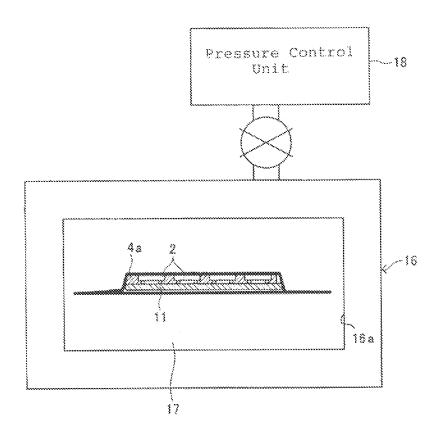


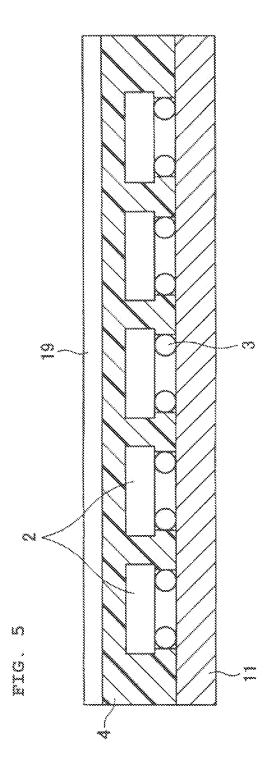
FIG.

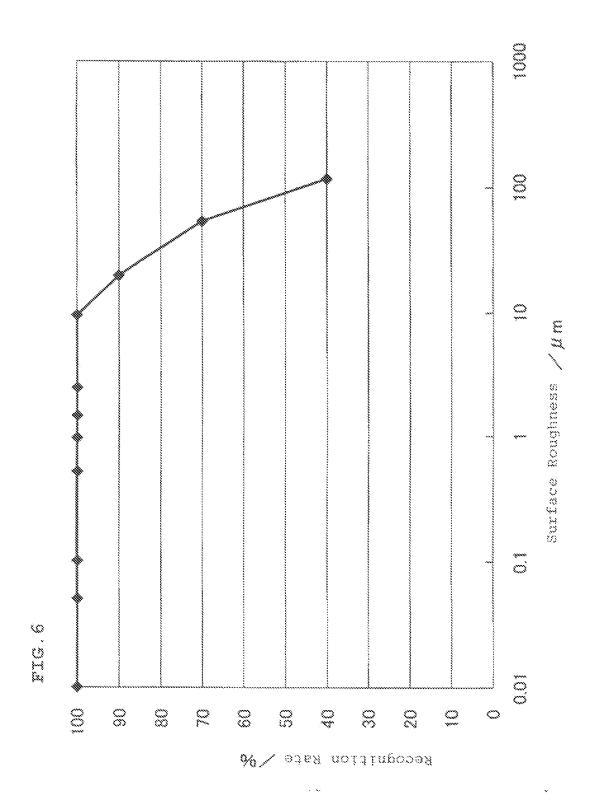
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FIG. 4



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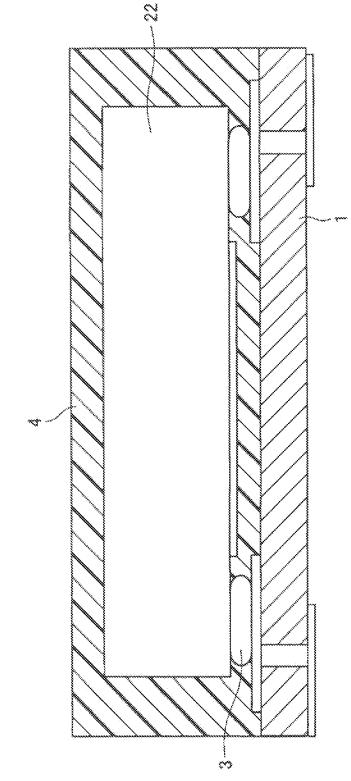
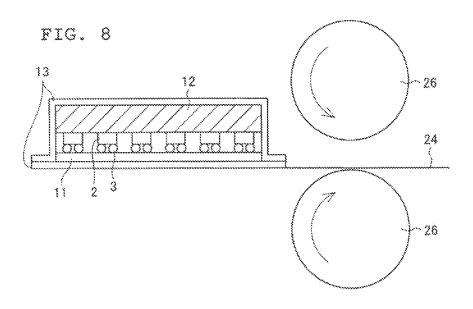
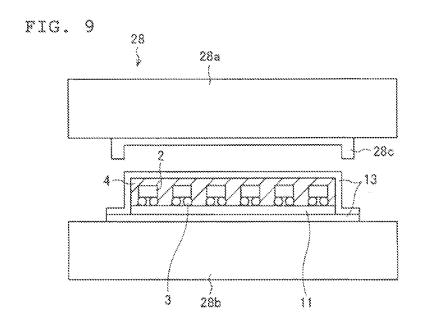


FIG.

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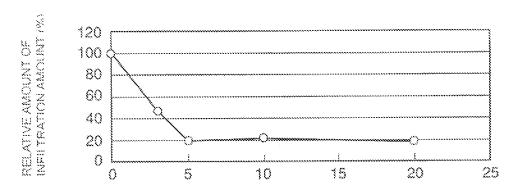




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FIG. 10

OCCUPANCY OF FILLERS LARGER THAN A GAP VS INFILTRATION AMOUNT



OCCUPANCY OF FILLERS LARGER THAN A GAP (wt %)